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# 1 [Enhancing Software Testing by Judicious Use of Code Coverage Information](#)

Stefan Berner, Roland Weber, Rudolf K. Keller

May ICSE '07: Proceedings of the 29th International Conference on Software Engineering

**Publisher:** IEEE Computer Society

Full text available: [pdf\(1.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, tools for the analysis and visualization of code coverage have become widely available. At first glance, their value in assessing and improving the quality of automated test suites seems to be obvious. Yet, experimental studies as well as experience ...

## 2 Mixing ATPG and property checking for testing HW/SW interfaces



Alessandro Fin, Franco Fummi, Graziano Pravadelli

April GLSVLSI '03: Proceedings of the 13th ACM Great Lakes symposium on VLSI 2003

**Publisher:** ACM

Full text available: [pdf\(148.48 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

A critical part of the design of HW/SW systems concerns the definition of the HW/SW interface. Such interfaces do not directly map a functionality of the system description, but they are inferred by the characteristics of the selected programmable device ...

**Keywords:** ATPG, fault simulation, model cecking

## 3 Search-based testing of service level agreements



Massimiliano Di Penta, Gerardo Canfora, Gianpiero Esposito, Valentina Mazza, Marcello Bruno

July GECCO '07: Proceedings of the 9th annual conference on Genetic and 2007 evolutionary computation

**Publisher:** ACM

Full text available: [pdf\(227.12 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

The diffusion of service oriented architectures introduces the need for novel testing approaches. On the one side, testing must be able to identify failures in the functionality provided by service. On the other side, it needs to identify cases in which ...

**Keywords:** quality of service, search-based testing, service level agreement

## 4 Usability testing for the web



Vikram V. Ingleshwar

July 2007 Queue, Volume 5 Issue 5

**Publisher:** ACM

Full text available: [pdf\(198.25 KB\)](#) [html\(14.36 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's sophisticated Web applications make tracking and listening to users more important than ever.

## 5 [Testing the reachability of \(new\) address space](#)



Randy Bush, James Hiebert, Olaf Maennel, Matthew Roughan, Steve Uhlig  
August 2007 INM '07: Proceedings of the 2007 SIGCOMM workshop on Internet network management

**Publisher:** ACM

Full text available: [pdf\(152.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The Internet was originally designed to provide connectivity from every node to every other node. However, policies can impede this connectivity [1]. This is especially true for newly allocated address space. Some Internet Service Providers (ISPs) simply ...

## 6 [Overcoming the challenges of multinational testing](#)



Agnieszka Bojko, Gavin S. Lew, Robert M. Schumacher  
November 2005 interactions, Volume 12 Issue 6

**Publisher:** ACM

Full text available: [pdf\(854.69 KB\)](#) [html\(14.75 KB\)](#)

Additional Information: [full citation](#), [cited by](#), [index terms](#)

## 7 [Path delay fault testing of ICs with embedded intellectual property blocks](#)



D. Nikolos, Th. Haniotakis, H. T. Vergos, Y. Tsiatouhas  
January 1999 DATE '99: Proceedings of the conference on Design, automation and test in Europe

**Publisher:** ACM

Full text available: [pdf\(54.95 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

## 8 [Improving conformance and interoperability testing](#)



James D. Kindrick, John A. Sauter, Robert S. Matthews  
March 1996 StandardView, Volume 4 Issue 1

**Publisher:** ACM

Full text available: [pdf\(198.86 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

## 9 Random testing of C calling conventions



Christian Lindig

September AADEBUD'05: Proceedings of the sixth international symposium on  
2005 Automated analysis-driven debugging

**Publisher:** ACM

Full text available: [pdf\(199.71](#)



**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

In a C compiler, function calls are difficult to implement correctly because they must respect a platform-specific calling convention. But they are governed by a simple invariant: parameters passed to a function must be received unaltered. A violation ...

**Keywords:** C, calling convention, compiler, composition, consistency, random testing

## 10 Compatibility and Regression Testing of COTS-Component-Based Software

Leonardo Mariani, Sofia Papagiannakis, Mauro Pezze

May ICSE '07: Proceedings of the 29th International Conference on Software  
2007 Engineering

**Publisher:** IEEE Computer Society

Full text available: [pdf\(243.35](#)



**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Software engineers frequently update COTS components integrated in component-based systems, and can often choose among many candidates produced by different vendors. This paper tackles both the problem of quickly identifying components that are syntactically ...

## 11 Testing with hostile data streams



Alan A. Jorgensen

March ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2  
2003

**Publisher:** ACM

Full text available: [pdf\(187.26](#)



**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

This note describes a method of testing software for response to malicious data streams. Systems that process data streams obtained from an external source such as the Internet are vulnerable to security issues if malicious data is not processed correctly. ...



**Keywords:** Adobe Acrobat Reader, buffer overflow, buffer overrun, internet security, random testing, software testing, steganography

## 12 [The specification and testing of quantified progress properties in distributed systems](#)

Prakash Krishnamurthy, Paolo A. G. Sivilotti

July ICSE '01: Proceedings of the 23rd International Conference on Software Engineering 2001

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(149.64 KB\)](#)  [Publisher Site](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

*There are two basic parts to the behavioral specification of distributed systems: safety and progress. In earlier work, we developed a tool to monitor progress properties of CORBA components specified using the temporal operator transient. In ...*


## 13 [Validating a Web service security abstraction by typing](#)



Andrew D. Gordon, Riccardo Pucella

November XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security 2002

**Publisher:** ACM

Full text available:  [pdf\(210.31 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

An XML web service is, to a first approximation, an RPC service in which requests and responses are encoded in XML as SOAP envelopes, and transported over HTTP. We consider the problem of authenticating requests and responses at the SOAP-level, rather ...

**Keywords:** Web services, authentication, remote procedure call, type systems

## 14 [Design, implementation and testing of extended and mixed precision BLAS](#)



Xiaoye S. Li, James W. Demmel, David H. Bailey, Greg Henry, Yozo Hida, Jimmy Iskandar, William Kahan, Suh Y. Kang, Anil Kapur, Michael C. Martin, Brandon J. Thompson, Teresa Tung, Daniel J. Yoo

June ACM Transactions on Mathematical Software (TOMS), Volume 28 Issue 2002 2

**Publisher:** ACM

Full text available:  [pdf\(456.84 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

This article describes the design rationale, a C implementation, and conformance testing of a subset of the new Standard for the BLAS (Basic Linear Algebra Subroutines): Extended and Mixed Precision BLAS. Permitting higher internal precision and mixed ...

**Keywords:** BLAS, double-double arithmetic, extended and mixed precision

## 15 Privacy preserving database application testing



Xintao Wu, Yongge Wang, Yuliang Zheng

October WPES '03: Proceedings of the 2003 ACM workshop on Privacy in the 2003 electronic society

**Publisher:** ACM

Full text available: [pdf\(175.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Traditionally, application software developers carry out their tests on their own *local development* databases. However, such local databases usually have only a small number of sample data and hence cannot simulate satisfactorily a live environment, ...

**Keywords:** database application testing, indistinguishability, privacy

## 16 Design, implementation and testing of an interactive video retrieval system



Georgina Gaughan, Alan F. Smeaton, Cathal Gurrin, Hyowon Lee, Kieran McDonald

November MIR '03: Proceedings of the 5th ACM SIGMM international workshop on 2003 Multimedia information retrieval

**Publisher:** ACM

Full text available: [pdf\(504.99 KB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper we present and discuss the system we developed for the search task of the TRECVID 2002, and its evaluation in an interactive search task. To do this we will look at the strategy we used in designing the system, and we discuss and evaluate ...

**Keywords:** interface design, system evaluation, usability testing, video analysis, video browsing, video retrieval

## 17 [Constraint Driven Pin Mapping for Concurrent SOC Testing](#)

Yu Huang, Sudhakar M. Reddy, Nilanjan Mukherjee, Chien-Chung Tsai, Omer Samman, Yahya Zaidan, Yanping Zhang, Wu-Tung Cheng  
January ASP-DAC '02: Proceedings of the 2002 conference on Asia South Pacific  
2002 design automation/VLSI Design  
**Publisher:** IEEE Computer Society

Full text available:  [pdf\(284.36 KB\)](#)  [Publisher](#)


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**Additional Information:** [full citation](#), [abstract](#)

A solution for mapping core I/O pins to System-On-a-Chip (SOC) I/O pins in order to achieve cost-efficient concurrent test for core-based designs is presented in this paper. The problem of pin mapping is first formulated as two well-known NP-complete ...

## 18 ['Good' Organisational Reasons for 'Bad' Software Testing: An Ethnographic Study of Testing in a Small Software Company](#)

David Martin, John Rooksby, Mark Rouncefield, Ian Sommerville  
May ICSE '07: Proceedings of the 29th International Conference on Software  
2007 Engineering  
**Publisher:** IEEE Computer Society

Full text available:  [pdf\(246.34 KB\)](#)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we report on an ethnographic study of a small software house to discuss the practical work of software testing. Through use of two rich descriptions, we discuss that "rigour" in systems integration testing necessarily has to be organisationally ...

## 19 [Meta-data version and configuration management in multi-vendor environments](#)




John R Friedrich  
June SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference  
2005 on Management of data  
**Publisher:** ACM

Full text available:  [pdf\(544.92 KB\)](#)


**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

Nearly all components that comprise modern information technology, such as Computer Aided Software Engineering (CASE) tools, Enterprise Application Integration (EAI) environments, Extract/Transform/Load (ETL) engines. Warehouses, EII, and Business Intelligence ...

## 20 [Testing malware detectors](#)

 Mihai Christodorescu, Somesh Jha  
July 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(374.57 KB\)](#)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

In today's interconnected world, malware, such as worms and viruses, can cause havoc. A malware detector (commonly known as virus scanner) attempts to identify malware. In spite of the importance of malware detectors, there is a dearth of testing techniques ...

**Keyw ords:** adaptive testing, anti-virus, malware, obfuscation

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